

ABSTRACT

Plasmid Purification

The present invention relates to a method of isolating at least one plasmid
5 from other components of a liquid, which method comprises the steps of providing a
separation matrix comprised of one or more porous carriers, which carrier(s) present
anion exchange groups on external surfaces as well as pore surfaces and a pore size
distribution that does not allow access of plasmids to pore surfaces; contacting said
matrix with the liquid to allow adsorption of the plasmids to ligands present on the
10 separation matrix; contacting an eluent with the separation matrix to release the
plasmids and recovering plasmids from a fraction of said eluent. Thus, the present
method allows the plasmids to adsorb to the external surfaces of the matrix, while
other components such as RNA is adsorbed onto the pore surfaces. In one
embodiment, the matrix presents a DNA exclusion limit of at least about 270 base
15 pairs; such as at least about 1,000 base pairs.